

ABSTRACT OF THE DISCLOSURE

A variable resolution imager and method of forming output signals from a variable resolution imager are described. An imager having a number of pixels is provided. The variable resolution imager is accomplished by binning selected groups of pixels in various sections of the imager together, thereby forming regions of variable resolution. The larger the number of pixels binned together the lower the resolution of that section of the imager. The binning is controlled by programming signals to the imager so that the resolution can be changed within a frame or between frames. The resolution can be controlled by a computer processor or by an operator. Feedback of the output of the imager can be used to determine the resolution of various sections of the imager.